History, Scandals and Tragedies: Beecher, Tuskegee, Willowbrook and the Rest

Susan E. Lederer, Ph.D. University of Wisconsin School of Medicine and Public Health

U.S. legislation as response to tragedy

Collier's

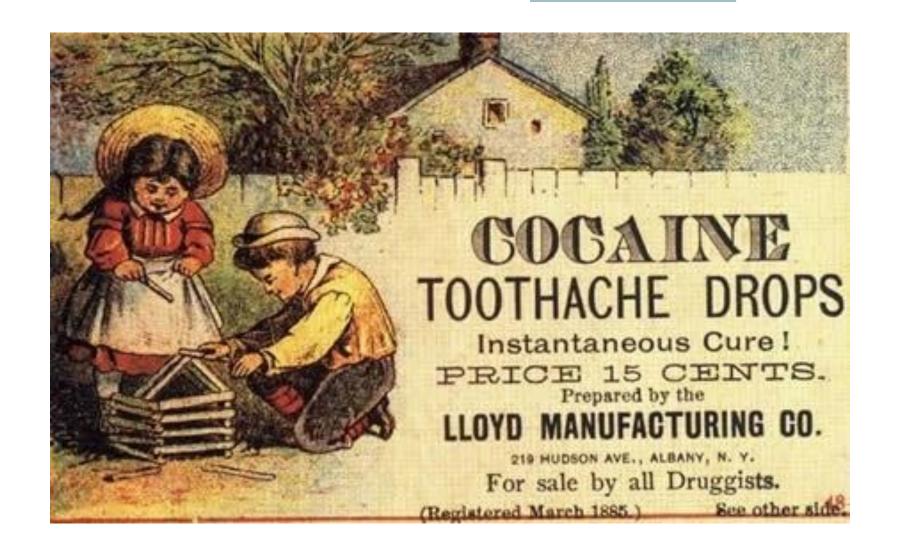
THE NATIONAL WEEKLY



DESCRIPT CARDEATORY.

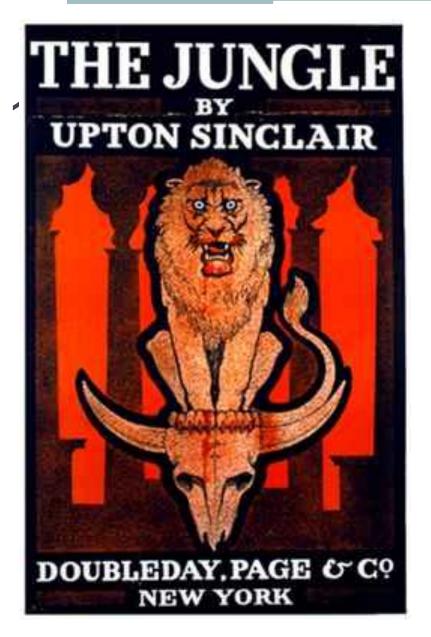
ALTERNATION

ANDTHER OF COLUMN DESAUNG CARDONS OF HIS



Food and Drug Act 1

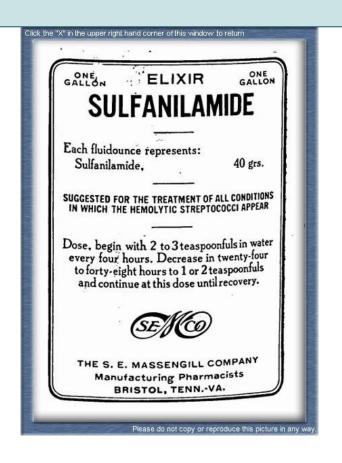




Elixir of Sulfanilamide tragedy

107 deaths





Food, Drug and Cosmetic Act of 1938

 Drugs or cosmetics must be tested for toxicity before marketing.

- Adequate directions for use needed to be on package
- Some drugs are designated "by prescription only"

Cranberry crisis of 1959

Concerns about safety
 of pesticides used on
 Cranberries



Thalidomide

1960-1961

83 children were born with unusual birth defects, not linked to thalidomide use.

a German scientist makes connections between thalidomide use and thousands of babies born with birth defects.



Kefauver-Harris Amendments to FDA

Frances Kelsey, FDA

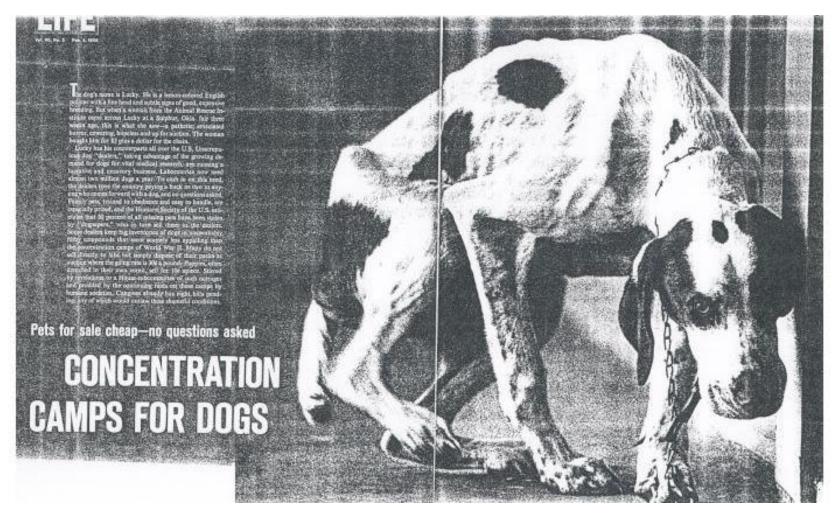


FDA can demand scientific data to determine the drug works

Congress passes Animal Welfare Act,

1966

Life magazine 1966



Why do we have federal regulations for human experimentation?

In response to scandals, tragedies Congress passes the National Research Act

1974

Both the history of human experimentation and history of controversy over human experimentation much older

United States Congress, 1900

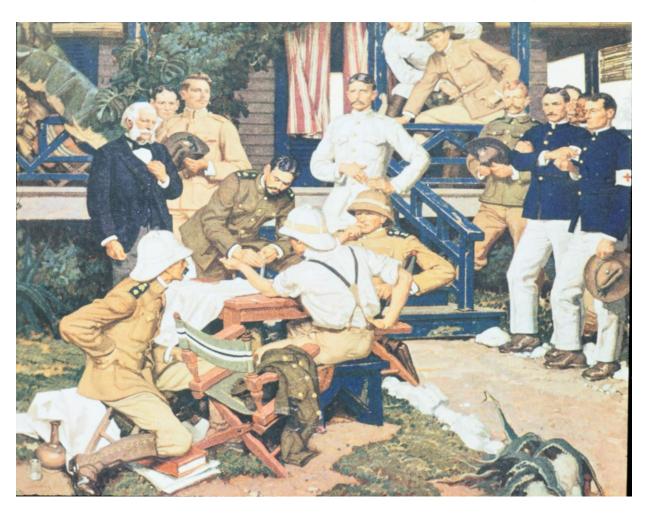
considers Senate bill 3424, a law that

would require investigators to disclose in advance the purpose and procedures of any nontherapeutic experiment involving human beings.

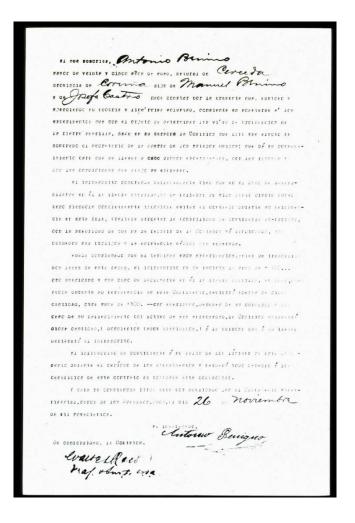
Senate bill 3424

```
calls for explicit ban on experiments using those persons deemed unable to consent, including infants, children under the age of twenty-one, and pregnant women.
```

The Yellow Fever Board in Cuba, 1900



Reed and his colleagues introduce written permission forms

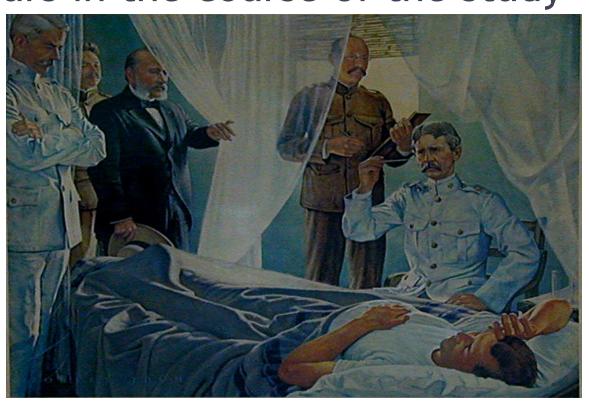


available in both English and Spanish

The undersigned understands...

perfectly well that in case of the development of yellow fever in him, that he endangers his life to a certain extent but it being entirely impossible for him to avoid the infection during his stay in this island, he prefers to take the chance of contracting it intentionally in the belief that he will receive from the said Commission the greatest care and the most skillful medical service.

Subjects receive payment of \$100 in American gold \$200 goes to family members if death occurs in the course of the study



"A written consent was obtained from each one, so that our moral responsibility was to a certain extent lessened. Of course, only the healthiest specimens were experimented upon . . ."

Aristides Agramonte

Medical research in US

continuing social support for American researchers

celebrating the heroes and martyrs of medical research

self-experimentation and volunteers

Contaminated Blood Injection Kills Youth In Seattle Preservation Research Project

SEATTLE, March 24 (P)-An 18-year-old college honor student died yesterday of an injection of bacterially contaminated blood given during an experiment connected with war research on blood preservation by the University of Washington.

James Stanley Leedom, a freshman at Seattle University, was one of forty volunteers who participated in the project seeking better ways to preserve whole blood.

He died three days after the injection despite every effort to save his life.

Dr. Robert H. Williams, head of the University of Washington Department of Medicine, said the blood had become contaminated "by some phenomenon" after it had been refrigerated.

"The only way we can explain it," said Dr. Williams, "is that the bacteria was able to grow in some manner while the blood was at freezing temperature and not at body temperature."

Both Dr. Williams and Dr. Clem-thrives when chilled. It produces ent A. Finch, Associate Professor shock and high fever. of Medicine in charge of hematol- The father, Stanley P. Leedom, ogy at the university, said they said he held no one at fault for would "gladly participate in the his son's death, same experiment tomorrow."

yet been identified, but they be-tragedy to deter in any way from lieved it to be a saprophyte (any the blood donor program or these organism living on dead or decay- experiments." ing organic matter) that does not The boy had planned to major grow at body temperature but in medicine.



Associated Press Wirephoto James Stanley Leedom

"I don't blame anyone for this," They said the bacteria had not he said. "I just don't want this

Polio Epidemics





Polio epidemic c. 1952







PARENTAL REQUEST FOR PARTICIPATION OF CHILD IN POLIOMYELITIS VACCINATION FIELD TRIAL

The National Foundation for Infantile Paralysis, Inc., in cooperation with state and local health, medical and educational authorities, is conducting a nation-wide field study of the effectiveness of a vaccine which may be protective against paralysis due to poliomyelitis. The vaccine consists of chemically killed poliomyelitis virus of all three known types. For purposes of this study, several thousand children will be given three injections of this vaccine into the arm over a period of several weeks; at least an equal number of unvaccinated children will be observed so that a comparison can be made between the two groups. The children in each group, those who are vaccinated and those who are not, are equally important to the study. In certain instances it will be necessary to test small samples of blood at intervals during the study to determine the amount of antibodies against poliomyelitis that are present.

I HEREBY REQUEST that my child,			S	be vaccinated
	(first name)	(middle name)	(last name)	,
if selected, or otherwise be permitted to partic	cipate in the proced	ures described abo	ve without cost	to me.
		-		
Date	Signed			
	Dalatianahin ta (11.21.3		
	Relationship to (Child (Mu	ist be parent or legal gu	ardian)
School		-		
		(Stre	et Address or Rural Lo	cation)
Grade				
		(City, Town	or Township)	(State)
				NFIP Form FT-1

HENRY K. BEECHER, M.D.



Professor of Anesthesia Research at Harvard Medical School

Convener of the Harvard Ad Hoc Brain Death Committee "Ethics and Clinical Research"

New England Journal of

Medicine

1966

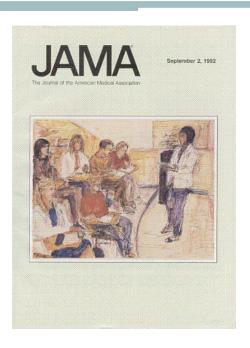
22 examples of "questionable" research practices

Not from fringe BUT from mainstream researchers and institutions





Cover picture: Localization of tropomodulin (green) and scattinit (etc) is cardiomycytes induced from a nontramparia control (left) and tropomodulin oncerepressing trampacia; (CTI) masse (right). Centrel cells show lifted on overlap (cells) between tropomodulin and s-action labels in control cells, but the abundant yellow signal in TOT cells inficates abernat colocalization of tropomodulin with s-actions. See the article by Sussman cal., pp. 51–61.







Prevention of Indoctor Endocarditis, Guidelines From the American Heart Prevention of Indoctor Endocarditis, and Kronacil House Committee, Curnell on Cardinascular House in the Young, and the Canadia Charles (Cardinascular House in the Young, and the Canadia Charles (Cardinascular House) and the Canadia Charles (Cardinascular House). The Canadia Charles (Cardinascular House) and the Cardinascular House Cardinascular House Canadia Charles (Cardinascular House). The Canadia Charles (Cardinascular Canadia Charles Charles Charles Charles Charles (Cardinascular Charles Cha

Copyright C 2007 American Huart Association: All highly reserved. Print ISSN: 0009-7322. Online ISSN: 5324-6539

The online version of this article, along with opdated information and services, is located on the World Wide Web at: http://circ.abajournals.org/ugi-content/fid/116/15/1736

Nationary force I Information about subsections to Constitution to reduce at Mills read adaptionals on give being those.

Permission Permission A Eighn Ded, Lypenort Wilson & Villan, a decision of Walton Khoru Haife, MJ West Center Street Ballenies, MD 21202 2006. Phone 404-528-4000 Fan 346-528-538 2 cmal.

Regress Information about option can be found orders of

Publication of the 22 examples

the rest from

Science, Cancer, J. of Urology, Surgery, Gynecology and Obstetrics, American J. of Medicine, Anesthesiology, and American J. Med. Sciences

Why HENRY K. BEECHER?



Christian faith?

anesthesia?

experience with human subjects research?

Beeecher's World War II

 Study of the Severely Wounded

Work on the placebo effect

Nazi Experiments





1946-47, prosecution of 23 Nazi medical personnel



United States v. Karl Brandt et al



Permissible Medical Experiments

The Nuremberg Code